

**Gregory, Bernarr**

---

**From:** PLUS  
**Sent:** Thursday, February 10, 2005 2:08 PM  
**To:** Gregory, Bernarr  
**Subject:** PLUS Results for 10768745

Here are the PLUS search results for 10768745.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10768745\_QUAL.txt



10768745\_LIST.txt



10768745\_WEST.txt



10768745\_EAST.txt



10768745.east



10768745\_CLS.txt



10768745\_CLSTITLES.t

xt



10768745\_WDS.txt



10768745\_QUAL

6181288 85  
6150974 75  
5223850 75  
6424286 73  
4499474 72  
5182564 72  
5483240 69  
5451969 66  
5745082 66  
5982329 66  
5541603 65  
4821044 65  
6100841 65  
5279478 65  
4958166 64  
5311192 64  
5061930 64  
5366179 63  
5828344 63  
5307077 63  
4621265 62  
5310134 61  
6016990 61  
6184817 61  
6420992 61  
6429800 61  
6196497 61  
5232182 61  
5673049 60  
4467327 60  
4823132 60  
6407711 60  
6181291 59  
4618865 59  
5917442 59  
4536685 59  
4980925 59  
4551728 59  
4980690 58  
5339082 58  
6359710 58  
6252559 58  
6295020 58  
RE33055 57  
4360816 57  
5319379 57  
5592850 57  
4149166 57



10768745\_QUAL

6249589 57  
5652631 57  
5472533 57  
5764192 57  
5793332 57  
5818393 57  
6703982 56  
6049302 56  
6731241 56  
4589610 56  
4562439 56  
4630050 56  
5982320 56  
6320541 56  
6055909 55  
5660355 55  
4415130 55  
3662384 55  
4914734 55  
4576346 54  
5019826 54  
5343211 53  
5739786 53  
6268821 53  
5525997 53  
5458041 53  
5710423 53  
5867256 53  
6012375 53  
3832711 53  
4382258 53  
6031501 53  
6060703 53  
5394163 52  
5035375 52  
5243553 52  
6175332 52  
3902685 52  
4266173 51  
4288049 51  
4383663 51  
4802640 51  
5829315 51  
6078289 51  
5229540 51  
5636992 51  
6179246 51  
5588057 51



10768745\_QUAL

5955987 50  
5184137 50  
5185608 50  
5225838 50  
5225839 50  
5223842 50  
5245347 50  
4968980 50  
6486823 50  
4851847 50  
4797839 50  
6806823 50  
6538597 50  
4991794 50  
3699574 50  
3891314 50  
4014020 50  
4347996 50  
5200606 50  
5224109 50  
5285461 50  
5543810 50  
5619216 50  
6225943 50  
6225943 50  
6231003 50  
6414622 50  
5696347 49  
5247843 49  
5486831 49  
5734389 49  
5515054 49  
4348677 49  
4095230 49  
4606848 49  
5986505 49  
6653984 49  
4522356 49  
6072889 49  
4412192 48  
5253823 48  
5347287 48  
5944281 48  
5726657 48  
6498582 47  
4337427 47  
4494202 47  
4448106 47



10768745\_QUAL

4533094 47  
5703314 47  
6388611 47  
6619178 47  
4244540 47  
4843235 47  
6288380 47  
5361073 47  
6295932 47  
6297762 46  
6295017 46  
4952042 46  
5384458 46  
4812855 46  
5886670 46  
5445078 46  
3813670 46  
4264907 46  
4307399 46  
4338602 46  
4521782 46  
5204551 46  
5229728 46  
5260709 46  
5271143 46  
5291650 46  
5340056 46  
5347910 46  
5400161 46  
5430449 46  
5642081 46  
6036140 46  
6157875 46  
6231002 46  
6262800 46  
6304583 46  
6352031 46  
6386886 46  
6410897 46  
6633613 46  
6724470 46  
6741341 46  
6789763 46  
4508293 45  
4598884 45  
4256279 45  
4554871 45  
5538205 45



10768745\_QUAL

6690458 45  
5321405 45  
4370655 45  
5826819 45  
5619205 44  
4614317 44  
6266010 44  
5274836 44  
6404379 43  
5860619 43  
6116537 43  
4790493 43  
5647560 43  
5669579 43  
5702068 43  
5779187 43  
3706429 43  
3918060 43  
3911345 43  
4093154 43  
4288050 43  
4307855 43  
4309003 43  
4309004 43  
4309005 43  
4329579 43  
4383662 43  
4461176 43  
4522355 43  
4830311 43  
4849634 43  
4850275 43  
4898341 43  
4898342 43  
4917330 43  
H000796 43  
5065956 43  
5235916 43  
5336894 43  
5430294 43  
5465620 43  
5587972 43  
5596185 43  
5664741 43  
5780839 43  
5848764 43  
6181988 43  
6349898 43



10768745\_QUAL

6487953 43  
6813593 43  
4121214 43  
4990920 43  
5064141 43  
5903473 43  
5314144 43  
6079666 43  
6300898 43  
6079665 43  
4498394 43  
4520973 43  
5201895 43  
5257121 43  
5631441 43  
5681009 43  
5710431 43  
5866840 43  
6392782 43  
6825791 43  
4356490 42  
4433334 42  
5682225 42  
5693907 42  
4358766 42  
5291209 42  
4586045 42  
4015261 42  
4429311 42  
4458246 42  
4426048 42  
4135686 42  
4245890 42  
4615496 42  
5262630 42  
6018163 42  
6123288 42  
6606066 42  
4454513 42  
5635939 42  
4502052 42  
6492937 42  
5361074 42  
4544926 42  
4549183 42  
4935743 42  
5302961 42  
5341146 42



10768745\_QUAL

5952965	42
6084540	42
5461571	42
5650793	41
5963111	41
5834682	41
5835057	41
4521780	41
5034750	41
5184136	41
5191351	41
4969819	41



45

PLUS Search Results for S/N 10768745, Searched February 10, 2005 ✓

The Patent Linguistics Utility System (PLUS) is a USPTO automated search

system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are

most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6181288	5472533	5225839	6288380	6404379	4498394
6150974	5764192	5223842	5361073	5860619	4520973
5223850	5793332	5245347	6295932	6116537	5201895
6424286	5818393	4968980	6297762	4790493	5257121
4499474	6703982	6486823	6295017	5647560	5631441
5182564	6049302	4851847	4952042	5669579	5681009
5483240	6731241	4797839	5384458	5702068	5710431
5451969	4589610	6806823	4812855	5779187	5866840
5745082	4562439	6538597	5886670	3706429	6392782
5982329	4630050	4991794	5445078	3918060	6825791
5541603	5982320	3699574	3813670	3911345	4356490
4821044	6320541	3891314	4264907	4093154	4433334
6100841	6055909	4014020	4307399	4288050	5682225
5279478	5660355	4347996	4338602	4307855	5693907
4958166	4415130	5200606	4521782	4309003	4358766
5311192	3662384	5224109	5204551	4309004	5291209
5061930	4914734	5285461	5229728	4309005	4586045
5366179	4576346	5543810	5260709	4329579	4015261
5828344	5019826	5619216	5271143	4383662	4429311
5307077	5343211	6225943	5291650	4461176	4458246
4621265	5739786	6225943	5340056	4522355	4426048
5310134	6268821	6231003	5347910	4830311	4135686
6016990	5525997	6414622	5400161	4849634	4245890
6184817	5458041	5696347	5430449	4850275	4615496
6420992	5710423	5247843	5642081	4898341	5262630
6429800	5867256	5486831	6036140	4898342	6018163
6196497	6012375	5734389	6157875	4917330	6123288
5232182	3832711	5515054	6231002	H000796	6606066
5673049	4382258	4348677	6262800	5065956	4454513
4467327	6031501	4095230	6304583	5235916	5635939
4823132	6060703	4606848	6352031	5336894	4502052
6407711	5394163	5986505	6386886	5430294	6492937
6181291	5035375	6653984	6410897	5465620	5361074
4618865	5243553	4522356	6633613	5587972	4544926
5917442	6175332	6072889	6724470	5596185	4549183



10768745\_LIST

4536685	3902685	4412192	6741341	5664741	4935743
4980925	4266173	5253823	6789763	5780839	5302961
4551728	4288049	5347287	4508293	5848764	5341146
4980690	4383663	5944281	4598884	6181988	5952965
5339082	4802640	5726657	4256279	6349898	6084540
6359710	5829315	6498582	4554871	6487953	5461571
6252559	6078289	4337427	5538205	6813593	5650793
6295020	5229540	4494202	6690458	4121214	5963111
RE33055	5636992	4448106	5321405	4990920	5834682
4360816	6179246	4533094	4370655	5064141	5835057
5319379	5588057	5703314	5826819	5903473	4521780
5592850	5955987	6388611	5619205	5314144	5034750
4149166	5184137	6619178	4614317	6079666	5184136
6249589	5185608	4244540	6266010	6300898	5191351
5652631	5225838	4843235	5274836	6079665	4969819



10768745 WEST

(6181288 6150974 5223850 6424286 4499474 5182564 5483240 5451969 57450  
82 5982329 5541603 4821044 6100841 5279478 4958166 5311192 5061930 536  
6179 5828344 5307077 4621265 5310134 6016990 6184817 6420992 6429800 6  
196497 5232182 5673049 4467327 4823132 6407711 6181291 4618865 5917442  
4536685 4980925 4551728 4980690 5339082 6359710 6252559 6295020 RE330  
55 4360816 5319379 5592850 4149166 6249589 5652631).pn.  
(5472533 5764192 5793332 5818393 6703982 6049302 6731241 4589610 45624  
39 4630050 5982320 6320541 6055909 5660355 4415130 3662384 4914734 457  
6346 5019826 5343211 5739786 6268821 5525997 5458041 5710423 5867256 6  
012375 3832711 4382258 6031501 6060703 5394163 5035375 5243553 6175332  
3902685 4266173 4288049 4383663 4802640 5829315 6078289 5229540 56369  
92 6179246 5588057 5955987 5184137 5185608 5225838).pn.  
(5225839 5223842 5245347 4968980 6486823 4851847 4797839 6806823 65385  
97 4991794 3699574 3891314 4014020 4347996 5200606 5224109 5285461 554  
3810 5619216 6225943 6225943 6231003 6414622 5696347 5247843 5486831 5  
734389 5515054 4348677 4095230 4606848 5986505 6653984 4522356 6072889  
4412192 5253823 5347287 5944281 5726657 6498582 4337427 4494202 44481  
06 4533094 5703314 6388611 6619178 4244540 4843235).pn.  
(6288380 5361073 6295932 6297762 6295017 4952042 5384458 4812855 58866  
70 5445078 3813670 4264907 4307399 4338602 4521782 5204551 5229728 526  
0709 5271143 5291650 5340056 5347910 5400161 5430449 5642081 6036140 6  
157875 6231002 6262800 6304583 6352031 6386886 6410897 6633613 6724470  
6741341 6789763 4508293 4598884 4256279 4554871 5538205 6690458 53214  
05 4370655 5826819 5619205 4614317 6266010 5274836).pn.  
(6404379 5860619 6116537 4790493 5647560 5669579 5702068 5779187 37064  
29 3918060 3911345 4093154 4288050 4307855 4309003 4309004 4309005 432  
9579 4383662 4461176 4522355 4830311 4849634 4850275 4898341 4898342 4  
917330 H000796 5065956 5235916 5336894 5430294 5465620 5587972 5596185  
5664741 5780839 5848764 6181988 6349898 6487953 6813593 4121214 49909  
20 5064141 5903473 5314144 6079666 6300898 6079665).pn.  
(4498394 4520973 5201895 5257121 5631441 5681009 5710431 5866840 63927  
82 6825791 4356490 4433334 5682225 5693907 4358766 5291209 4586045 401  
5261 4429311 4458246 4426048 4135686 4245890 4615496 5262630 6018163 6  
123288 6606066 4454513 5635939 4502052 6492937 5361074 4544926 4549183  
4935743 5302961 5341146 5952965 6084540 5461571 5650793 5963111 58346  
82 5835057 4521780 5034750 5184136 5191351 4969819).pn.



10768745\_EAST

(6181288  
6150974  
5223850  
6424286  
4499474  
5182564  
5483240  
5451969  
5745082  
5982329  
5541603  
4821044  
6100841  
5279478  
4958166  
5311192  
5061930  
5366179  
5828344  
5307077  
4621265  
5310134  
6016990  
6184817  
6420992  
6429800  
6196497  
5232182  
5673049  
4467327  
4823132  
6407711  
6181291  
4618865  
5917442  
4536685  
4980925  
4551728  
4980690  
5339082  
6359710  
6252559  
6295020  
RE33055  
4360816  
5319379  
5592850  
4149166



10768745\_EAST

6249589  
5652631) .pn.  
(5472533  
5764192  
5793332  
5818393  
6703982  
6049302  
6731241  
4589610  
4562439  
4630050  
5982320  
6320541  
6055909  
5660355  
4415130  
3662384  
4914734  
4576346  
5019826  
5343211  
5739786  
6268821  
5525997  
5458041  
5710423  
5867256  
6012375  
3832711  
4382258  
6031501  
6060703  
5394163  
5035375  
5243553  
6175332  
3902685  
4266173  
4288049  
4383663  
4802640  
5829315  
6078289  
5229540  
5636992  
6179246  
5588057



10768745\_EAST

5955987  
5184137  
5185608  
5225838) .pn.  
(5225839  
5223842  
5245347  
4968980  
6486823  
4851847  
4797839  
6806823  
6538597  
4991794  
3699574  
3891314  
4014020  
4347996  
5200606  
5224109  
5285461  
5543810  
5619216  
6225943  
6225943  
6231003  
6414622  
5696347  
5247843  
5486831  
5734389  
5515054  
4348677  
4095230  
4606848  
5986505  
6653984  
4522356  
6072889  
4412192  
5253823  
5347287  
5944281  
5726657  
6498582  
4337427  
4494202  
4448106



10768745\_EAST

4533094  
5703314  
6388611  
6619178  
4244540  
4843235) .pn.  
(6288380  
5361073  
6295932  
6297762  
6295017  
4952042  
5384458  
4812855  
5886670  
5445078  
3813670  
4264907  
4307399  
4338602  
4521782  
5204551  
5229728  
5260709  
5271143  
5291650  
5340056  
5347910  
5400161  
5430449  
5642081  
6036140  
6157875  
6231002  
6262800  
6304583  
6352031  
6386886  
6410897  
6633613  
6724470  
6741341  
6789763  
4508293  
4598884  
4256279  
4554871  
5538205



10768745\_EAST

6690458  
5321405  
4370655  
5826819  
5619205  
4614317  
6266010  
5274836) .pn.  
(6404379  
5860619  
6116537  
4790493  
5647560  
5669579  
5702068  
5779187  
3706429  
3918060  
3911345  
4093154  
4288050  
4307855  
4309003  
4309004  
4309005  
4329579  
4383662  
4461176  
4522355  
4830311  
4849634  
4850275  
4898341  
4898342  
4917330  
H000796  
5065956  
5235916  
5336894  
5430294  
5465620  
5587972  
5596185  
5664741  
5780839  
5848764  
6181988  
6349898



10768745\_EAST

6487953  
6813593  
4121214  
4990920  
5064141  
5903473  
5314144  
6079666  
6300898  
6079665) .pn.  
(4498394  
4520973  
5201895  
5257121  
5631441  
5681009  
5710431  
5866840  
6392782  
6825791  
4356490  
4433334  
5682225  
5693907  
4358766  
5291209  
4586045  
4015261  
4429311  
4458246  
4426048  
4135686  
4245890  
4615496  
5262630  
6018163  
6123288  
6606066  
4454513  
5635939  
4502052  
6492937  
5361074  
4544926  
4549183  
4935743  
5302961  
5341146



10768745\_EAST

5952965  
6084540  
5461571  
5650793  
5963111  
5834682  
5835057  
4521780  
5034750  
5184136  
5191351  
4969819) .pn.



10768745\_CLS

Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10768745 on February 10, 2005

Original Classifications

26	244/3.16
15	244/3.15
11	342/17
9	244/3.19
9	342/62
8	342/14
8	343/771
4	342/13
4	342/15
4	342/174
4	342/53
4	343/705
3	89/1.11
3	102/336
3	244/3.12
3	244/3.17
3	244/3.22
3	250/203.6
3	342/149
3	342/381
2	102/293
2	102/489
2	244/3.1
2	244/3.11
2	244/3.14
2	244/3.2
2	244/3.21
2	250/332
2	250/504R
2	342/137
2	342/169
2	342/170
2	342/188
2	342/201
2	342/202
2	342/357.06
2	342/427
2	342/68
2	342/99
2	343/700MS
2	343/729
2	343/756
2	343/781CA



2 356/141.1  
2 382/103  
2 703/6

Cross-Reference Classifications

21 244/3.16  
20 342/62  
16 244/3.15  
11 342/13  
10 244/3.19  
9 342/149  
7 342/195  
6 250/342  
6 342/16  
6 342/194  
5 102/214  
5 342/53  
5 343/770  
4 244/3.1  
4 244/3.11  
4 342/14  
4 342/159  
4 342/192  
4 342/196  
4 342/379  
4 342/381  
4 342/61  
4 342/97  
4 343/700MS  
4 343/725  
4 343/771  
4 343/872  
4 343/909  
4 356/4.01  
4 434/2  
3 250/495.1  
3 250/504R  
3 333/248  
3 342/137  
3 342/15  
3 342/153  
3 342/157  
3 342/165  
3 342/173  
3 342/188  
3 342/20  
3 342/204  
3 342/357.06



10768745\_CLS

3 342/58  
3 343/720  
3 343/768  
3 343/853  
3 343/876  
3 382/103  
2 73/167  
2 89/41.06  
2 102/211  
2 102/357  
2 102/363  
2 102/370  
2 102/476  
2 102/489  
2 102/505  
2 102/513  
2 235/411  
2 244/3.13  
2 244/3.14  
2 244/3.17  
2 244/3.2  
2 250/347  
2 330/287  
2 333/114  
2 333/22R  
2 342/111  
2 342/131  
2 342/145  
2 342/147  
2 342/158  
2 342/174  
2 342/19  
2 342/200  
2 342/25A  
2 342/3  
2 342/357.01  
2 342/374  
2 342/378  
2 342/380  
2 342/384  
2 342/461  
2 342/52  
2 342/68  
2 342/80  
2 342/94  
2 342/98  
2 343/708  
2 343/753



10768745\_CLS

2 343/756  
2 343/765  
2 343/781CA  
2 343/781P  
2 343/785  
2 343/840  
2 356/139.05  
2 356/5.01  
2 434/22  
2 455/1  
2 455/326  
2 701/213

Combined Classifications

47 244/3.16  
31 244/3.15  
29 342/62  
19 244/3.19  
15 342/13  
12 342/14  
12 342/149  
12 342/17  
12 343/771  
9 342/53  
7 342/15  
7 342/195  
7 342/381  
6 102/214  
6 244/3.1  
6 244/3.11  
6 250/342  
6 342/16  
6 342/174  
6 342/194  
6 343/700MS  
6 343/770  
5 244/3.17  
5 250/504R  
5 342/137  
5 342/188  
5 342/357.06  
5 342/379  
5 342/61  
5 342/97  
5 343/705  
5 343/725  
5 343/872  
5 382/103



4 89/1.11  
4 102/336  
4 102/489  
4 244/3.14  
4 244/3.2  
4 244/3.22  
4 250/203.6  
4 342/153  
4 342/159  
4 342/192  
4 342/196  
4 342/58  
4 342/68  
4 343/720  
4 343/756  
4 343/781CA  
4 343/909  
4 356/4.01  
4 434/2  
3 73/167  
3 102/505  
3 244/3.12  
3 244/3.21  
3 250/332  
3 250/495.1  
3 333/248  
3 342/157  
3 342/165  
3 342/170  
3 342/173  
3 342/19  
3 342/20  
3 342/201  
3 342/204  
3 342/374  
3 342/384  
3 342/80  
3 343/729  
3 343/753  
3 343/765  
3 343/768  
3 343/853  
3 343/876  
3 455/1  
2 29/600  
2 73/865.6  
2 89/41.06  
2 102/211



10768745\_CLS

2 102/293  
2 102/357  
2 102/363  
2 102/370  
2 102/476  
2 102/513  
2 235/411  
2 244/3.13  
2 244/3.27  
2 248/184.1  
2 250/203.1  
2 250/203.2  
2 250/208.1  
2 250/216  
2 250/234  
2 250/347  
2 318/561  
2 330/287  
2 333/114  
2 333/22R  
2 342/111  
2 342/12  
2 342/131  
2 342/145  
2 342/147  
2 342/154  
2 342/158  
2 342/169  
2 342/175  
2 342/200  
2 342/202  
2 342/25A  
2 342/3  
2 342/357.01  
2 342/357.09  
2 342/361  
2 342/372  
2 342/373  
2 342/378  
2 342/380  
2 342/383  
2 342/427  
2 342/461  
2 342/52  
2 342/64  
2 342/90  
2 342/94  
2 342/95



10768745\_CLS

2 342/98  
2 342/99  
2 343/708  
2 343/754  
2 343/757  
2 343/761  
2 343/776  
2 343/781P  
2 343/785  
2 343/840  
2 343/895  
2 356/139.05  
2 356/139.07  
2 356/141.1  
2 356/141.5  
2 356/5.01  
2 372/33  
2 434/21  
2 434/22  
2 455/326  
2 701/213  
2 701/3  
2 701/302  
2 703/6



10768745\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10768745 on February 10, 2005

47	244/3.16	(26 OR, 21 XR)
	Class 244 :	AERONAUTICS
	244/3.1	MISSILE STABILIZATION OR TRAJECTORY CONTROL
	244/3.15	.Automatic guidance
	244/3.16	..Optical (includes infrared)
31	244/3.15	(15 OR, 16 XR)
	Class 244 :	AERONAUTICS
	244/3.1	MISSILE STABILIZATION OR TRAJECTORY CONTROL
	244/3.15	.Automatic guidance
29	342/62	(9 OR, 20 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/61	RETURN SIGNAL CONTROLS EXTERNAL DEVICE
	342/62	.Missile or spacecraft guidance
19	244/3.19	(9 OR, 10 XR)
	Class 244 :	AERONAUTICS
	244/3.1	MISSILE STABILIZATION OR TRAJECTORY CONTROL
	244/3.15	.Automatic guidance
	244/3.19	..Radio wave
15	342/13	(4 OR, 11 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/13	RADAR EW (ELECTRONIC WARFARE)
12	342/14	(8 OR, 4 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/13	RADAR EW (ELECTRONIC WARFARE)
	342/14	.ECM (Electronic countermeasures, i.e., jamming)
12	342/149	(3 OR, 9 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/147	DETERMINING DIRECTION
	342/149	.Monopulse
12	342/17	(11 OR, 1 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS



10768745\_CLSTITLES  
AND DEVICES

342/13 RADAR EW (ELECTRONIC WARFARE)  
342/16 .ECCM (Electronic counter-countermeasures,  
i.e., antijamming)  
342/17 ..Radar reacts to jamming

12 343/771 (8 OR, 4 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/767 .Slot type  
343/770 ..Plural  
343/771 ...With wave guide coupling

9 342/53 (4 OR, 5 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/52 COMBINED WITH DIVERSE TYPE RADIANT ENERGY  
SYSTEM  
342/53 .With infrared device

7 342/15 (4 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/13 RADAR EW (ELECTRONIC WARFARE)  
342/14 .ECM (Electronic countermeasures, i.e.,  
jamming)  
342/15 ..With repeater

7 342/195 (0 OR, 7 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/175 WITH PARTICULAR CIRCUIT  
342/195 .Digital processing

7 342/381 (3 OR, 4 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/378 .Utilizing correlation techniques  
342/379 ..Side lobe elimination  
342/381 ...Difference of each antenna channel signal

6 102/214 (1 OR, 5 XR)  
Class 102 : AMMUNITION AND EXPLOSIVES  
102/200 IGNITING DEVICES AND SYSTEMS  
102/206 .Ignition or detonation circuit  
102/211 ..Proximity fuze  
102/214 ...Radio wave



10768745\_CLSTITLES

6 244/3.1 (2 OR, 4 XR)  
     Class 244 : AERONAUTICS  
     244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL

6 244/3.11 (2 OR, 4 XR)  
     Class 244 : AERONAUTICS  
     244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL  
     244/3.11 .Remote control

6 250/342 (0 OR, 6 XR)  
     Class 250 : RADIANT ENERGY  
     250/336.1 INVISIBLE RADIANT ENERGY RESPONSIVE ELECTRIC  
                     SIGNALLING  
     250/338.1 .Infrared responsive  
     250/340 ..Methods  
     250/342 ...Locating infrared emissive objects

6 342/16 (0 OR, 6 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/13 RADAR EW (ELECTRONIC WARFARE)  
     342/16 .ECCM (Electronic counter-countermeasures,  
                     i.e., antijamming)

6 342/174 (4 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/165 TESTING OR CALIBRATING OF RADAR SYSTEM  
     342/173 .By monitoring  
     342/174 ..Calibrating

6 342/194 (0 OR, 6 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/175 WITH PARTICULAR CIRCUIT  
     342/194 .Complex signal (in phase and quadrature)

6 343/700MS (2 OR, 4 XR)  
     Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
     343/700R ANTENNAS  
     343/700MS .Microstrip

6 343/770 (1 OR, 5 XR)  
     Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
     343/700R ANTENNAS  
     343/767 .Slot type  
     343/770 ..Plural



10768745\_CLSTITLES

- 5 244/3.17 (3 OR, 2 XR)
  - Class 244 : AERONAUTICS
  - 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
  - 244/3.15 .Automatic guidance
  - 244/3.16 ..Optical (includes infrared)
  - 244/3.17 ...Optical correlation
  
- 5 250/504R (2 OR, 3 XR)
  - Class 250 : RADIANT ENERGY
  - 250/493.1 RADIANT ENERGY GENERATION AND SOURCES
  - 250/503.1 .With radiation modifying member
  - 250/504R ..Ultraviolet or infrared source
  
- 5 342/137 (2 OR, 3 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
  - 342/118 DETERMINING DISTANCE
  - 342/134 .With pulse modulation
  - 342/137 ..With variable pulse repetition frequency (PRF) or pulse width
  
- 5 342/188 (2 OR, 3 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
  - 342/175 WITH PARTICULAR CIRCUIT
  - 342/188 .With polarization
  
- 5 342/357.06 (2 OR, 3 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
  - 342/350 DIRECTIVE
  - 342/352 .Including a satellite
  - 342/357.01 ..With position indicating
  - 342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)
  
- 5 342/379 (1 OR, 4 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
  - 342/350 DIRECTIVE
  - 342/378 .Utilizing correlation techniques
  - 342/379 ..Side lobe elimination
  
- 5 342/61 (1 OR, 4 XR)
  - Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
  - 342/61 RETURN SIGNAL CONTROLS EXTERNAL DEVICE



10768745\_CLSTITLES

5 342/97 (1 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM  
 342/89 .Receiver  
 342/94 ..Gating  
 342/95 ...Automatic range tracking  
 342/97 ....With automatic lock-on

5 343/705 (4 OR, 1 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/705 .With aircraft

5 343/725 (1 OR, 4 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/725 .Plural separate diverse type

5 343/872 (1 OR, 4 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/872 .With housing or protective covering

5 382/103 (2 OR, 3 XR)  
 Class 382 : IMAGE ANALYSIS  
 382/100 APPLICATIONS  
 382/103 .Target tracking or detecting

4 89/1.11 (3 OR, 1 XR)  
 Class 089 : ORDNANCE  
 89/1.11 WAGING WAR

4 102/336 (3 OR, 1 XR)  
 Class 102 : AMMUNITION AND EXPLOSIVES  
 102/335 PYROTECHNICS  
 102/336 .Flare

4 102/489 (2 OR, 2 XR)  
 Class 102 : AMMUNITION AND EXPLOSIVES  
 102/473 SHELLS  
 102/489 .With secondary shells

4 244/3.14 (2 OR, 2 XR)  
 Class 244 : AERONAUTICS  
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL  
 244/3.11 .Remote control



10768745\_CLSTITLES

244/3.14 ..Radio wave

4 244/3.2 (2 OR, 2 XR)

Class 244 : AERONAUTICS

244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL

244/3.15 .Automatic guidance

244/3.2 ..Inertial

4 244/3.22 (3 OR, 1 XR)

Class 244 : AERONAUTICS

244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL

244/3.15 .Automatic guidance

244/3.21 ..Attitude control mechanisms

244/3.22 ...Fluid reaction type

4 250/203.6 (3 OR, 1 XR)

Class 250 : RADIANT ENERGY

250/200 PHOTOCELLS; CIRCUITS AND APPARATUS

250/201.1 .Photocell controls its own optical systems

250/203.1 ..Following a target (e.g., a star or instrument pointer or other object) other

than a pattern

250/203.3 ...Self-luminous target

250/203.6 ....Airborne target, or spaceborne target othe

r

than the sun (e.g., star or missile)

4 342/153 (1 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES

342/147 DETERMINING DIRECTION

342/149 .Monopulse

342/153 ..With particular antenna or waveguide

4 342/159 (0 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES

342/159 CLUTTER ELIMINATION

4 342/192 (0 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES

342/175 WITH PARTICULAR CIRCUIT

342/192 .Spectrum analysis

4 342/196 (0 OR, 4 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES



10768745\_CLSTITLES

342/175 WITH PARTICULAR CIRCUIT

342/195 .Digital processing

342/196 ..Fast fourier transform (FFT)

4 342/58 (1 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/52 COMBINED WITH DIVERSE TYPE RADIANT ENERGY  
SYSTEM

342/58 .With transmission to a remote station

4 342/68 (2 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/61 RETURN SIGNAL CONTROLS EXTERNAL DEVICE

342/68 .Proximity fuze

4 343/720 (1 OR, 3 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/720 .Combined with diverse-type art device

4 343/756 (2 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/756 .With polarization filter or converter

4 343/781CA (2 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/772 .Wave guide type (e.g., horn)

343/781R ..With external reflector or director

343/781CA ...With main and subreflector (Casse-grain  
type)

4 343/909 (0 OR, 4 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/907 .Antenna components

343/909 ..Refracting means and radio wave energy  
filters (e.g., lenses and polarizers)

4 356/4.01 (0 OR, 4 XR)

Class 356 : OPTICS: MEASURING AND TESTING

356/3 RANGE OR REMOTE DISTANCE FINDING

356/4.01 .With photodetection

4 434/2 (0 OR, 4 XR)



10768745\_CLSTITLES

Class 434 : EDUCATION AND DEMONSTRATION  
 434/1 DETECTION OR RANGE DETERMINATION OF DISTANT  
 OBJECT BY APPARATUS USING SENSOR OF ELECTR  
 OMAGNETIC OR  
 SOUND ENERGY  
 434/2 .Radar

3 73/167 (1 OR, 2 XR)  
 Class 073 : MEASURING AND TESTING  
 73/167 ORDNANCE AND PROJECTILE

3 102/505 (1 OR, 2 XR)  
 Class 102 : AMMUNITION AND EXPLOSIVES  
 102/501 PROJECTILES  
 102/504 .Line carrying or filamentary material  
 distributing  
 102/505 ..Chaff dispensing

3 244/3.12 (3 OR, 0 XR)  
 Class 244 : AERONAUTICS  
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL  
 244/3.11 .Remote control  
 244/3.12 ..Trailing wire

3 244/3.21 (2 OR, 1 XR)  
 Class 244 : AERONAUTICS  
 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL  
 244/3.15 .Automatic guidance  
 244/3.21 ..Attitude control mechanisms

3 250/332 (2 OR, 1 XR)  
 Class 250 : RADIANT ENERGY  
 250/330 INFRARED-TO-VISIBLE IMAGING  
 250/332 .Including detector array

3 250/495.1 (0 OR, 3 XR)  
 Class 250 : RADIANT ENERGY  
 250/493.1 RADIANT ENERGY GENERATION AND SOURCES  
 250/494.1 .Plural radiation sources  
 250/495.1 ..Including an infrared source

3 333/248 (0 OR, 3 XR)  
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS  
 333/245 LONG LINE ELEMENTS AND COMPONENTS  
 333/248 .Waveguide elements and components

3 342/157 (0 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS



10768745\_CLSTITLES  
AND DEVICES

342/147 DETERMINING DIRECTION  
342/157 .With frequency or phase steering

3 342/165 (0 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/165 TESTING OR CALIBRATING OF RADAR SYSTEM

3 342/170 (2 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/165 TESTING OR CALIBRATING OF RADAR SYSTEM  
342/169 .By simulation  
342/170 ..Microwave

3 342/173 (0 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/165 TESTING OR CALIBRATING OF RADAR SYSTEM  
342/173 .By monitoring

3 342/19 (1 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/13 RADAR EW (ELECTRONIC WARFARE)  
342/16 .ECCM (Electronic counter-countermeasures,  
i.e., antijamming)  
342/17 ..Radar reacts to jamming  
342/19 ...By varying gain or blocking receiver

3 342/20 (0 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/13 RADAR EW (ELECTRONIC WARFARE)  
342/20 .Detection of surveillance

3 342/201 (2 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/175 WITH PARTICULAR CIRCUIT  
342/200 .For frequency modulation  
342/201 ..Combined with pulse modulation

3 342/204 (0 OR, 3 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/175 WITH PARTICULAR CIRCUIT



10768745\_CLSTITLES

342/202 .For pulse modulation  
342/204 ..With pulse shaping

3 342/374 (1 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/368 .Including a steerable array  
342/374 ..With a switch

3 342/384 (1 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/378 .Utilizing correlation techniques  
342/384 ..Difference of each antenna channel signal

3 342/80 (1 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/73 RETURN SIGNAL CONTROLS RADAR SYSTEM  
342/74 .Antenna control  
342/75 ..Physical orientation  
342/80 ...Monopulse

3 343/729 (2 OR, 1 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/729 .Plural diverse-type antennas using same activ  
e  
element

3 343/753 (1 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/753 .With spaced or external radio wave refractor  
(e.g., lens)

3 343/765 (1 OR, 2 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
343/700R ANTENNAS  
343/757 .With means for moving directive antenna for  
scanning, sweeping or orienting  
343/763 ..Rotary or rotary oscillatory motion  
343/765 ...In different planes

3 343/768 (0 OR, 3 XR)  
Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS



10768745\_CLSTITLES

	343/700R	ANTENNAS
	343/767	.Slot type
	343/768	..With periodic control of slot or coupling
3	343/853	(0 OR, 3 XR)
	Class 343	: COMMUNICATIONS: RADIO WAVE ANTENNAS
	343/700R	ANTENNAS
	343/850	.With coupling network or impedance in the leadin
	343/853	..With plural antennas
3	343/876	(0 OR, 3 XR)
	Class 343	: COMMUNICATIONS: RADIO WAVE ANTENNAS
	343/700R	ANTENNAS
	343/876	.Switching between antennas and lines
3	455/1	(1 OR, 2 XR)
	Class 455	: TELECOMMUNICATIONS
	455/1	INTERFERENCE SIGNAL TRANSMISSION (E.G., JAMMING)
2	29/600	(1 OR, 1 XR)
	Class 029	: METAL WORKING
	29/592	METHOD OF MECHANICAL MANUFACTURE
	29/592.1	.Electrical device making
	29/600	..Antenna or wave energy "plumbing" making
2	73/865.6	(1 OR, 1 XR)
	Class 073	: MEASURING AND TESTING
	73/865.6	SIMULATED ENVIRONMENT (E.G., TEST CHAMBERS)
2	89/41.06	(0 OR, 2 XR)
	Class 089	: ORDNANCE
	89/37.01	MOUNTS
	89/41.01	.Training mechanisms
	89/41.02	..Motor operated
	89/41.06	...By light reception
2	102/211	(0 OR, 2 XR)
	Class 102	: AMMUNITION AND EXPLOSIVES
	102/200	IGNITING DEVICES AND SYSTEMS
	102/206	.Ignition or detonation circuit
	102/211	..Proximity fuze
2	102/293	(2 OR, 0 XR)
	Class 102	: AMMUNITION AND EXPLOSIVES
	102/293	MISCELLANEOUS



10768745\_CLSTITLES

- 2 102/357 (0 OR, 2 XR)
  - Class 102 : AMMUNITION AND EXPLOSIVES
  - 102/335 PYROTECHNICS
  - 102/357 .With means to eject an object from a casing
  
- 2 102/363 (0 OR, 2 XR)
  - Class 102 : AMMUNITION AND EXPLOSIVES
  - 102/363 FUEL AIR EXPLOSIVE
  
- 2 102/370 (0 OR, 2 XR)
  - Class 102 : AMMUNITION AND EXPLOSIVES
  - 102/367 GAS OR MIST DISPERSING
  - 102/370 .Cartridge or projectile
  
- 2 102/476 (0 OR, 2 XR)
  - Class 102 : AMMUNITION AND EXPLOSIVES
  - 102/473 SHELLS
  - 102/475 .Focused or directed detonation
  - 102/476 ..Shaped charge
  
- 2 102/513 (0 OR, 2 XR)
  - Class 102 : AMMUNITION AND EXPLOSIVES
  - 102/501 PROJECTILES
  - 102/513 .Target marking
  
- 2 235/411 (0 OR, 2 XR)
  - Class 235 : REGISTERS
  - 235/400 ORDNANCE OR WEAPON SYSTEMS COMPUTER
  - 235/411 .With target tracking means
  
- 2 244/3.13 (0 OR, 2 XR)
  - Class 244 : AERONAUTICS
  - 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
  - 244/3.11 .Remote control
  - 244/3.13 ..Beam rider
  
- 2 244/3.27 (1 OR, 1 XR)
  - Class 244 : AERONAUTICS
  - 244/3.1 MISSILE STABILIZATION OR TRAJECTORY CONTROL
  - 244/3.24 .Externally mounted stabilizing appendage  
(e.g., fin)
  - 244/3.27 ..Collapsible
  
- 2 248/184.1 (1 OR, 1 XR)
  - Class 248 : SUPPORTS
  - 248/127 STAND
  - 248/176.1 .To hold a particular article
  - 248/177.1 ..Having platform for mounting article directl.



10768745\_CLSTITLES

Y  
 )  
 above stationary stand (e.g., tripod head)

248/178.1 ...Adjustable platform  
 248/184.1 ....On double horizontal pivots

2 250/203.1 (1 OR, 1 XR)  
 Class 250 : RADIANT ENERGY  
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS  
 250/201.1 .Photocell controls its own optical systems  
 250/203.1 ..Following a target (e.g., a star or  
 instrument pointer or other object) other t  
 han a pattern

2 250/203.2 (1 OR, 1 XR)  
 Class 250 : RADIANT ENERGY  
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS  
 250/201.1 .Photocell controls its own optical systems  
 250/203.1 ..Following a target (e.g., a star or  
 instrument pointer or other object) other  
 than a pattern  
 250/203.2 ...Target illuminated by artificial light  
 source

2 250/208.1 (1 OR, 1 XR)  
 Class 250 : RADIANT ENERGY  
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS  
 250/206 .Photocell controlled circuit  
 250/208.1 ..Plural photosensitive image detecting elemen  
 t  
 arrays

2 250/216 (1 OR, 1 XR)  
 Class 250 : RADIANT ENERGY  
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS  
 250/216 .Optical or pre-photocell system

2 250/234 (1 OR, 1 XR)  
 Class 250 : RADIANT ENERGY  
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS  
 250/216 .Optical or pre-photocell system  
 250/234 ..Means for moving optical system

2 250/347 (0 OR, 2 XR)  
 Class 250 : RADIANT ENERGY  
 250/336.1 INVISIBLE RADIANT ENERGY RESPONSIVE ELECTRIC  
 SIGNALLING  
 250/338.1 .Infrared responsive



10768745\_CLSTITLES

- 250/347                   ..With movable beam deflector or focussing means
- 2   318/561               (1 OR, 1 XR)  
       Class   318 :   ELECTRICITY: MOTIVE POWER SYSTEMS  
       318/560           POSITIONAL SERVO SYSTEMS (E.G.,  
                           SERVOMECHANISMS)  
       318/561           .Adaptive or optimizing systems including  
                           "bang-bang" servos
- 2   330/287               (0 OR, 2 XR)  
       Class   330 :   AMPLIFIERS  
       330/250           WITH SEMICONDUCTOR AMPLIFYING DEVICE (E.G.,  
                           TRANSISTOR)  
       330/286           .Including distributed parameter-type coupling  
       330/287           ..Of diode type
- 2   333/114               (0 OR, 2 XR)  
       Class   333 :   WAVE TRANSMISSION LINES AND NETWORKS  
       333/1             PLURAL CHANNEL SYSTEMS  
       333/100           .Having branched circuits  
       333/109           ..Using directional coupler  
       333/114           ...Having crossed-guide waveguide
- 2   333/22R               (0 OR, 2 XR)  
       Class   333 :   WAVE TRANSMISSION LINES AND NETWORKS  
       333/22R           DISSIPATING TERMINATIONS FOR LONG LINES
- 2   342/111               (0 OR, 2 XR)  
       Class   342 :   COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                           AND DEVICES  
       342/104           DETERMINING VELOCITY  
       342/109           .Combined with determining distance  
       342/111           ..With plural receiver frequency band  
                           separation
- 2   342/12                (1 OR, 1 XR)  
       Class   342 :   COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                           AND DEVICES  
       342/5             RADAR REFLECTOR  
       342/12           .Chaff
- 2   342/131               (0 OR, 2 XR)  
       Class   342 :   COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                           AND DEVICES  
       342/118           DETERMINING DISTANCE  
       342/128           .With frequency modulation



10768745\_CLSTITLES

342/130 ..Plural modulation  
 342/131 ...Combined with pulse modulation (e.g.,  
 frequency agile)

2 342/145 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE  
 342/145 .With correlation

2 342/147 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/147 DETERMINING DIRECTION

2 342/154 (1 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/147 DETERMINING DIRECTION  
 342/149 .Monopulse  
 342/154 ..Combined with beam steering

2 342/158 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/147 DETERMINING DIRECTION  
 342/158 .Scanning

2 342/169 (2 OR, 0 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/165 TESTING OR CALIBRATING OF RADAR SYSTEM  
 342/169 .By simulation

2 342/175 (1 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT

2 342/200 (0 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/175 WITH PARTICULAR CIRCUIT  
 342/200 .For frequency modulation

2 342/202 (2 OR, 0 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES



10768745\_CLSTITLES

342/175 WITH PARTICULAR CIRCUIT  
342/202 .For pulse modulation

2 342/25A (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/25R SYNTHETIC APERTURE RADAR  
342/25A .Mapping or imaging using synthetic aperture  
radar

2 342/3 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/1 RADIO WAVE ABSORBER  
342/3 .For camouflage

2 342/357.01 (0 OR, 2 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/352 .Including a satellite  
342/357.01 ..With position indicating

2 342/357.09 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/352 .Including a satellite  
342/357.01 ..With position indicating  
342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)  
342/357.09 ....With transmission of location-indicative  
information to or from a remote station

2 342/361 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/361 .Including polarized signal communication  
transmitter or receiver

2 342/372 (1 OR, 1 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES  
342/350 DIRECTIVE  
342/368 .Including a steerable array  
342/371 ..With electronic scanning  
342/372 ...Controlled



10768745\_CLSTITLES

- 2 342/373 (1 OR, 1 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/368 .Including a steerable array  
     342/373 ..With a matrix
- 2 342/378 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/378 .Utilizing correlation techniques
- 2 342/380 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/378 .Utilizing correlation techniques  
     342/379 ..Side lobe elimination  
     342/380 ...Sum of each antenna channel signal
- 2 342/383 (1 OR, 1 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/378 .Utilizing correlation techniques  
     342/383 ..Sum of each antenna signal
- 2 342/427 (2 OR, 0 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/385 .Beacon or receiver  
     342/417 ..Direction-finding receiver only  
     342/422 ...With self-orienting antenna pattern  
     342/427 ....Monopulse or pseudo monopulse tracking  
                     antenna type
- 2 342/461 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/450 .Position indicating (e.g., triangulation)  
     342/461 ..With speed determination
- 2 342/52 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS



10768745\_CLSTITLES  
AND DEVICES

342/52                    COMBINED WITH DIVERSE TYPE RADIANT ENERGY  
                             SYSTEM

2   342/64                (1 OR, 1 XR)  
     Class   342 :   COMMUNICATIONS:   DIRECTIVE RADIO WAVE SYSTEMS  
                             AND DEVICES  
     342/61                RETURN SIGNAL CONTROLS EXTERNAL DEVICE  
     342/63                .Aircraft guidance  
     342/64                ..With map matching

2   342/90                (1 OR, 1 XR)  
     Class   342 :   COMMUNICATIONS:   DIRECTIVE RADIO WAVE SYSTEMS  
                             AND DEVICES  
     342/73                RETURN SIGNAL CONTROLS RADAR SYSTEM  
     342/89                .Receiver  
     342/90                ..Automatic target detection

2   342/94                (0 OR, 2 XR)  
     Class   342 :   COMMUNICATIONS:   DIRECTIVE RADIO WAVE SYSTEMS  
                             AND DEVICES  
     342/73                RETURN SIGNAL CONTROLS RADAR SYSTEM  
     342/89                .Receiver  
     342/94                ..Gating

2   342/95                (1 OR, 1 XR)  
     Class   342 :   COMMUNICATIONS:   DIRECTIVE RADIO WAVE SYSTEMS  
                             AND DEVICES  
     342/73                RETURN SIGNAL CONTROLS RADAR SYSTEM  
     342/89                .Receiver  
     342/94                ..Gating  
     342/95                ...Automatic range tracking

2   342/98                (0 OR, 2 XR)  
     Class   342 :   COMMUNICATIONS:   DIRECTIVE RADIO WAVE SYSTEMS  
                             AND DEVICES  
     342/73                RETURN SIGNAL CONTROLS RADAR SYSTEM  
     342/89                .Receiver  
     342/98                ..Frequency

2   342/99                (2 OR, 0 XR)  
     Class   342 :   COMMUNICATIONS:   DIRECTIVE RADIO WAVE SYSTEMS  
                             AND DEVICES  
     342/73                RETURN SIGNAL CONTROLS RADAR SYSTEM  
     342/89                .Receiver  
     342/98                ..Frequency  
     342/99                ...Doppler frequency tracking



10768745\_CLSTITLES

2 343/708 (0 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/705 .With aircraft  
 343/708 ..Aircraft part of active antenna or vice vers

a

2 343/754 (1 OR, 1 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/753 .With spaced or external radio wave refractor  
 (e.g., lens)  
 343/754 ..With scanning, sweeping, or orienting

2 343/757 (1 OR, 1 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/757 .With means for moving directive antenna for  
 scanning, sweeping or orienting

2 343/761 (1 OR, 1 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/757 .With means for moving directive antenna for  
 scanning, sweeping or orienting  
 343/761 ..Reflector and antenna relatively movable

2 343/776 (1 OR, 1 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/772 .Wave guide type (e.g., horn)  
 343/776 ..Plural

2 343/781P (0 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/772 .Wave guide type (e.g., horn)  
 343/781R ..With external reflector or director  
 343/781P ...Plural reflectors

2 343/785 (0 OR, 2 XR)  
 Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/772 .Wave guide type (e.g., horn)  
 343/785 ..Dielectric type (e.g., polystyrene rod)

2 343/840 (0 OR, 2 XR)



10768745\_CLSTITLES

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
 343/700R ANTENNAS  
 343/834 .Antenna with parasitic reflector  
 343/840 ..Parabolic-type reflector with active antenna  
           at focus

2 343/895 (1 OR, 1 XR)  
       Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
       343/700R ANTENNAS  
       343/895 .Spiral or helical type

2 356/139.05 (0 OR, 2 XR)  
       Class 356 : OPTICS: MEASURING AND TESTING  
       356/138 ANGLE MEASURING OR ANGULAR AXIAL ALIGNMENT  
       356/139.04 .Automatic following or aligning while  
                   indicating measurement  
       356/139.05 ..With optical elements moving relative to  
                   fixed housing to follow or align

2 356/139.07 (1 OR, 1 XR)  
       Class 356 : OPTICS: MEASURING AND TESTING  
       356/138 ANGLE MEASURING OR ANGULAR AXIAL ALIGNMENT  
       356/139.04 .Automatic following or aligning while  
                   indicating measurement  
       356/139.07 ..With photodetection of reflected beam angle  
                   with respect to a unidirectional source bea

m

2 356/141.1 (2 OR, 0 XR)  
       Class 356 : OPTICS: MEASURING AND TESTING  
       356/138 ANGLE MEASURING OR ANGULAR AXIAL ALIGNMENT  
       356/140 .Apex of angle at observing or detecting  
                   station  
       356/141.1 ..With photodetection of reflected beam angle  
                   with respect to a unidirectional source bea

m

2 356/141.5 (1 OR, 1 XR)  
       Class 356 : OPTICS: MEASURING AND TESTING  
       356/138 ANGLE MEASURING OR ANGULAR AXIAL ALIGNMENT  
       356/140 .Apex of angle at observing or detecting  
                   station  
       356/141.2 ..With photodetection  
       356/141.5 ...With at least 2-dimensional sensitivity

2 356/5.01 (0 OR, 2 XR)  
       Class 356 : OPTICS: MEASURING AND TESTING  
       356/3 RANGE OR REMOTE DISTANCE FINDING



10768745\_CLSTITLES  
 356/4.01 .With photodetection  
 356/5.01 ..Of pulse transit time

2 372/33 (1 OR, 1 XR)  
 Class 372 : COHERENT LIGHT GENERATORS  
 372/33 PARTICULAR OPERATING COMPENSATION MEANS

2 434/21 (1 OR, 1 XR)  
 Class 434 : EDUCATION AND DEMONSTRATION  
 434/11 ORGANIZED ARMED OR UNARMED CONFLICT OR SHOOTIN

G

434/16 .Gunnery  
 434/19 ..Gun aiming  
 434/21 ...Training apparatus using beam of infrared,  
 visible light, or ultraviolet radiation

2 434/22 (0 OR, 2 XR)  
 Class 434 : EDUCATION AND DEMONSTRATION  
 434/11 ORGANIZED ARMED OR UNARMED CONFLICT OR SHOOTIN

G

434/16 .Gunnery  
 434/19 ..Gun aiming  
 434/21 ...Training apparatus using beam of infrared,  
 visible light, or ultraviolet radiation  
 434/22 ....Beam sensor included in apparatus

2 455/326 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/313 .Frequency modifying or conversion  
 455/323 ..Particular frequency conversion structure or  
 circuitry  
 455/325 ...Including distributed electrical parameter  
 structure  
 455/326 ....With balanced mixer

2 701/213 (0 OR, 2 XR)  
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION  
 701/200 NAVIGATION  
 701/207 .Employing position determining equipment  
 701/213 ..Using Global Positioning System (GPS)

2 701/3 (1 OR, 1 XR)  
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND



		10768745_CLSTITLES
		RELATIVE LOCATION
701/1		VEHICLE CONTROL, GUIDANCE, OPERATION, OR
		INDICATION
701/3		.Aeronautical vehicle
2	701/302	(1 OR, 1 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND
		RELATIVE LOCATION
	701/300	RELATIVE LOCATION
	701/302	.Course to intercept
2	703/6	(2 OR, 0 XR)
	Class	703 : DATA PROCESSING: STRUCTURAL DESIGN,
		MODELING, SIMULATION, AND EMULATION
	703/6	SIMULATING NONELECTRICAL DEVICE OR SYSTEM



above 1  
 absence 1  
 abstract 1  
 accommodate 1  
 accordingly 1  
 accuracy 1  
 accurately 1  
 active 8  
 activity 4  
 acute 1  
 advantageously 1  
 again 1  
 against 1  
 aim 1  
 aims 1  
 air 2  
 al 1  
 all 1  
 already 2  
 also 5  
 although 1  
 among 1  
 ampc 1  
 amplified 1  
 amplifier 3  
 amplifies 1  
 an 9  
 and 46  
 andjammer 1  
 angle 5  
 another 2  
 ante 1  
 antenna 23  
 antennajamming 1  
 antennas 15  
 anterma 1  
 anti 2  
 any 9  
 apparent 1  
 appended 1  
 applied 1  
 aps 6  
 architecture 2  
 are 25  
 armor 1  
 around 2  
 arrows 2  
 art 1



as 3  
 associated 1  
 at 3  
 atgms 1  
 attack 1  
 background 1  
 backlobes 1  
 band 16  
 bandjamming 2  
 based 2  
 be 6  
 because 1  
 become 1  
 been 3  
 before 2  
 being 3  
 best 2  
 between 8  
 bplexed 1  
 ble 1  
 board 1  
 body 1  
 bome 1  
 borne 1  
 both 1  
 by 18  
 can 5  
 capability 1  
 caps 3  
 cause 1  
 causes 1  
 changing 1  
 channelizes 1  
 charmels 1  
 choose 1  
 christian 1  
 claims 1  
 clause 1  
 close 3  
 closes 1  
 cohtrol 1  
 combined 1  
 command 1  
 computer 5  
 concurrently 1  
 conductive 3  
 conformal 5  
 confused 1



confusion 1  
 conjunction 1  
 consecutive 1  
 continuously 1  
 controlled 1  
 controller 6  
 controls 1  
 cooperation 1  
 corresponding 2  
 counter 3  
 counteract 1  
 coupled 1  
 coverage 1  
 covering 1  
 covers 1  
 create 1  
 current 2  
 currents 2  
 dark 1  
 date 1  
 de 1  
 decreases 1  
 dedicatory 1  
 def 1  
 degrees 1  
 departing 1  
 depending 1  
 depends 1  
 depicted 1  
 depicting 1  
 depicts 1  
 deployed 1  
 described 2  
 description 2  
 desensitization 1  
 destroy 1  
 destruction 1  
 detail 1  
 detect 1  
 detectable 1  
 detected 2  
 detection 2  
 detector 5  
 determined 1  
 determining 1  
 developed 2  
 diagram 2  
 difficulties 1



direction 1  
 dis 1  
 disable 1  
 disabled 1  
 disclosure 1  
 do 1  
 docket 1  
 does 2  
 donald 1  
 doppler 2  
 double 1  
 drawing 2  
 due 3  
 duration 1  
 during 6  
 each 2  
 effect 4  
 effective 1  
 effectiveness 3  
 effects 1  
 either 1  
 electrically 2  
 electronic 1  
 electronics 1  
 eliminate 1  
 emanating 1  
 embodiment 3  
 embodiments 1  
 emission 6  
 emissions 6  
 emit 2  
 emits 1  
 emitted 5  
 employ 1  
 employed 1  
 end 4  
 enemy 18  
 energy 5  
 enters 1  
 entire 1  
 even 1  
 eventually 1  
 explained 1  
 exterior 1  
 false 1  
 fhe 1  
 figure 7  
 figures 4



filing 1  
filter 1  
fire 2  
first 3  
followed 2  
fomard 1  
for 10  
foregoing 1  
form 1  
frequencies 1  
frequency 8  
from 15  
front 5  
function 3  
functions 1  
further 1  
gated 1  
generated 1  
generates 1  
generator 3  
given 1  
governmental 1  
government 1  
greater 1  
greatly 1  
grenades 1  
ground 2  
guidance 3  
guided 1  
halladay 1  
handling 1  
hardware 1  
has 5  
have 2  
herein 1  
hereto 1  
high 1  
homes 1  
however 3  
if 2  
illustrate 1  
illustrated 4  
illustrates 2  
in 33  
incapable 1  
incoming 2  
incomorating 1  
increase 2



increased 1  
indicate 2  
indicated 1  
indicating 1  
indicative 1  
information 5  
initiating 1  
intended 1  
intercepted 1  
interfere 2  
interference 3  
interfering 2  
interval 2  
into 3  
invention 5  
inventors 1  
is 36  
it 4  
its 1  
itself 2  
jam 1  
jammer 19  
jammers 1  
jamming 29  
jams 1  
launched 2  
lethality 1  
level 2  
licensed 1  
light 1  
like 2  
likelihood 2  
limited 1  
line 8  
listen 4  
listening 5  
lkf 1  
ln 1  
lnvention 1  
located 6  
loss 2  
lovelace 1  
low 1  
lowest 1  
ltiple 1  
ma 1  
made 1  
majs 7



makes 1  
manufactured 1  
many 1  
maximize 2  
maximum 1  
may 4  
means 2  
michael 1  
minimize 1  
minimum 1  
missile 39  
missiles 4  
mode 3  
modifications 1  
monitored 1  
more 1  
most 2  
multiple 7  
needs 1  
never 1  
no 3  
normally 1  
nose 1  
not 5  
now 1  
nse 1  
number 2  
numbers 1  
objective 1  
occur 2  
occurs 3  
of 89  
off 3  
oftheinvention 1  
on 17  
one 2  
only 3  
ontroller 1  
operate 1  
operating 1  
operation 2  
oply 1  
opposite 3  
oppositely 1  
optimizes 1  
or 7  
other 2  
others 1



out 3  
output 1  
overdrive 1  
own 1  
page 8  
part 1  
particular 4  
particularly 1  
parts 1  
pass 1  
path 1  
pattern 6  
payment 1  
performed 2  
period 1  
periodically 1  
phase 2  
pole 2  
portions 1  
positioned 3  
potential 2  
power 1  
preferred 2  
presence 2  
present 2  
presents 1  
prevents 1  
problem 5  
problems 3  
process 1  
produces 1  
propagate 1  
propagated 1  
propagation 2  
propelled 1  
protect 1  
protection 8  
protects 1  
provide 2  
provided 1  
proximity 1  
pulse 5  
pulses 10  
purpose 1  
purposes 1  
radar 20  
radars 2  
radiated 4



radiation 2  
radio 3  
radome 8  
raises 1  
ralph 1  
range 1  
receive 1  
received 3  
receiver 3  
receives 1  
receiving 17  
reception 1  
reduce 2  
reduction 1  
referring 1  
reflections 1  
reject 1  
relative 2  
remains 1  
rendered 1  
repeated 1  
represent 1  
representative 2  
required 2  
resides 1  
respectively 1  
result 1  
results 1  
retlected 1  
rf 6  
rocket 1  
royalties 1  
rpgs 1  
same 1  
scope 2  
second 2  
seeker 53  
seekers 1  
seeket 1  
select 1  
selected 6  
selection 3  
sense 1  
sensitizing 1  
sequence 3  
serial 1  
set 1  
setting 1



several 2  
shadow 1  
shadowing 5  
should 1  
side 4  
sides 3  
sight 8  
signal 9  
signals 27  
significant 2  
simultaneously 3  
since 3  
single 3  
skilled 1  
skin 2  
small 1  
so 2  
solves 1  
some 1  
spatial 1  
spirit 1  
strike 1  
structure 1  
subsequently 1  
successf 1  
successful 2  
such 7  
suchjammers 1  
summary 1  
support 1  
surface 5  
switch 5  
switching 3  
synchronization 3  
synchronize 1  
synchronizing 2  
system 15  
systems 2  
tank 1  
tanks 1  
target 10  
targeted 1  
techniques 1  
tf 1  
than 2  
that 23  
the 243  
thejammer 1



thejamming 1  
them 1  
thenjamming 1  
therefore 2  
thereon 1  
these 3  
they 2  
third 1  
this 7  
those 1  
threat 1  
throughout 1  
throw 2  
time 2  
title 1  
tlight 2  
tlzrough 1  
to 44  
toward 4  
tracking 3  
trajectory 1  
transmission 2  
transmissive 6  
transmit 13  
transmitted 5  
transmitter 2  
transmitting 7  
travel 1  
traveled 1  
tslter 1  
turned 1  
turrl 1  
two 4  
typical 2  
typically 2  
ul 1  
under 1  
unintentional 1  
until 1  
up 1  
upon 1  
us 1  
use 2  
used 2  
useful 2  
uses 1  
using 1  
utilizes 3



10768745\_WDS

utilizing 1  
various 1  
vehicle 2  
vehicles 1  
very 2  
via 1  
vulnerable 1  
warhead 2  
wave 5  
well 1  
what 1  
when 9  
where 1  
whereas 1  
wherein 1  
which 2  
while 2  
with 20  
within 1  
without 4  
yet 1  
yo 1